# **Technical questionnaire**

Solanum l	ycopersicum L.			
Tomato				
Version 1	6 - Publication date: 11/07/2024			
Mandatory fields or sections are marked with an asterisk (*)				
04 . Infor	mation on the breeding scheme ar	nd propagation of the variety		
04.01. Туբ	oe of material *			
0	hybrid			
0	cross-pollinated variety			
0	self-pollinated variety			
0	parent line			
04.01.01.	Parental line use *			
	wers the risk of an additional year a entially and only share with the exan ase indicate for the production of	ical expression of characteristics between the parent line and to provide information about the identity of hybrid varieties is the organisation of the technical examination more efficient the costs of the applicant. This information will be dealt with nination office in charge of the technical examination.		
	ich hybrid variety(ies) the parental e is used			
*				
04.02. Me	thod of propagation of the variety	<b>/</b> *		
0	seed propagated			
0	vegetatively propagated			
04.03. Otl	her information on genetic origin a	and breeding method		
Ple	ase specify			
05 . Chara	acteristics			
	per in brackets refers to the corresponder of expression which best correst	onding characteristic in the UPOV Technical Guidelines, please sponds).		
(2) (G) 05	.01. Plant: growth type *			
0	1 - determinate	Campbell 1327, Prisca		

Q 2 - indeterminate Marmande VR, Saint-Pierre, San Marzano 2

## (6) 05.01.01. Only varieties with plant growth type indeterminate: Plant: height \*

O 1 - very short Cherry Belle

O 2 - very short to short

O 3 - short Carson, Despina

O 4 - short to medium

O 5 - medium Brooklyn, Buffalo, Vision

O 6 - medium to long

**Q** 7 - long Classy, Clarence, Climberly, Massada

O 8 - long to very long

O 9 - very long Day Dream, Minired

### (10) (G) 05.02. Leaf: type of blade \*

O 1 - pinnate Mikado, Pilot, Red Jacket

Q 2 - bipinnate Lukullus, Saint-Pierre

## (12) 05.02.01. Leaf: intensity of green colour \*

O 1 - very light

2 - very light to light

O 3 - light Macero II, Poncette, Rossol

• 4 - light to medium

O 5 - medium Lucy

O 6 - medium to dark

O 7 - dark Allround, Daniela, Lorena, Red Robin

O 8 - dark to very dark

O 9 - very dark

## (19) (G) 05.03. Peduncle: abscission layer \*

O 1 - absent Aledo, Bandera, Count, Lerica

O 9 - present Montfavet H 63.5, Roma

## (21) (G) 05.04. Fruit: green shoulder (before maturity)\*

O 1 - absent Felicia, Rio Grande, Trust

O 9 - present Daniela, Montfavet H 63.5



(25) (G) 05.04.01. Fruit: green stripes (before maturity)*				
0	1 - absent	Daniela		
0	9 - present	Green Zebra, Tigerella		
(26) (G) 05	5.05. Fruit: size*			
0	1 - very small	Please indicate size in grams		
0	2 - very small to small	Please indicate size in grams		
0	3 - small	Please indicate size in grams		
0	4 - small to medium	Please indicate size in grams		
0	5 - medium	Please indicate size in grams		
0	6 - medium to large	Please indicate size in grams		
0	7 - large	Please indicate size in grams		
0	8 - large to very large	Please indicate size in grams		



Breeder's ref.: undefined

O 9 - very large Please indicate size in grams

## (28) (G) 05.06. Fruit: shape in longitudinal section \*

O 1 - flattened Campbell 28, Marmande VR

Q 2 - oblate Montfavet H 63.4, Montfavet H 63.5

O 3 - circular Cerise, Moneymaker

Q 4 - oblong Early Mech, Peto Gro

O 5 - cylindrical Hypeel 244, Macero II, San Marzano 2

O 6 - elliptic Alcaria, Castone

O 7 - cordate Valenciano

O 8 - ovate Dualrow, Soto

O 9 - obovate Duquesta, Estelle Rimone, Rio Grande

O 10 - pyriform Europeel

O 11 - obcordate Cuore del Ponente, Magno

## (29) 05.06.01. Fruit: ribbing at peduncle end \*

O 1 - absent or very weak Calimero, Cerise

O 2 - very weak to weak

O 3 - weak Early Mech, Hypeel 244, Melody, Peto Gro, Rio Grande

• 4 - weak to medium

O 5 - medium Montfavet H 63.4, Montfavet H 63.5

O 6 - medium to strong

**Q** 7 - strong Campbell 1327, Carmello, Count

O 8 - strong to very strong

O 9 - very strong Costoluto Fiorentino, Ingrid, Marmande VR

#### (36) (G) 05.07. Fruit: number of locules \*

O 1 - only two Early Mech, Europeel, San Marzano

**2** - two or three Alphamech, Futuria

O 3 - three or four Montfavet H 63.5

O 4 - four, five or six Raïssa, Tradiro



O	5 - more than six	Marmande VR
		.:a.*
05.07.01. O	Do fruits of the variety reach mature Yes	rity? *
0	No	
05.07.02.	LSL genes*	
0	1 - absent	
0	9 - present	
05 07 02	If I CI Companyonant	
05.07.03.	If LSL Genes present  1 - NOR gene homozygous	
0	2 - NOR gene heterozygous	
0	3 - RIN gene homozygous	
0	4 - RIN gene heterozygous	
0	5 - other gene	Please specify
	Fruit: gel in locules *  1 - absent	
0		
0	9 - present	
(37) 05.08	3. Fruit: colour at maturity*	
0	1 - cream	Jazon, White Mirabell
0	2 - yellow	Goldene Königin, Yellow Pear
0	3 - orange	Sungold
0	4 - pink	Aichi First
0	5 - red	Dianela, Ferline, Montfavet H 63.5
0	6 - brown	Ozyrys
0	7 - green	Green Grape, Green Zebra
	3.01. Fruit: firmness *	
0	1 - very soft	Marmande VR
0	2 - very soft to soft	



#### Breeder's ref.: undefined

3 - soft 0 Trend 4 - soft to medium 0 0 5 - medium Cristina 6 - medium to firm 7 - firm Fernova, Konsul, Tradiro  $\mathbf{O}$ 8 - firm to very firm 0 9 - very firm Dianela, Karat, Lolek (42) 05.08.02. Time of maturity \* 0 1 - very early Dolcevita, Sungold, Sweet Baby 2 - very early to early 0 3 - early Bianca, Rossol, Shiren 4 - early to medium 0 0 5 - medium Gourmet, UC 82B 0 6 - medium to late 0 7 - late Arletta, Durinta 0 8 - late to very late 9 - very late Dianela 0 (43) (G) 05.09. Resistance to Meloidogyne incognita (Mi)\* 0 1 - susceptible Casaque Rouge 0 2 - moderately resistant Campeon, Tyonic 0 3 - highly resistant Anahu x Casaque Rouge (44) (G) 05.10. Resistance to *Verticillium* sp. (Va and Vd) - Race 0\* 0 1 - absent Anabel, Marmande verte Daniela, Marmande VR  $\mathbf{O}$ 9 - present (45.1) (G) 05.11. Resistance to Fusarium oxysporum f. sp. lycopersici (FoI) - Race 0EU/1US\* 1 - absent Marmande, Marmande verte, Resal

O 9 - present Gourmet, Larissa, Marporum, "Marporum x Marmande

verte", Mohawk, Motelle, Riesling

### (45.2) (G) 05.12. Resistance to Fusarium oxysporum f. sp. lycopersici (Fol) - Race 1EU/2US\*

O 1 - absent Cherry Belle, Marmande verte, Marporum, Ranco, Roma



eeder's ref.	: undefined			
0	9 - present	Ago	ostino, "Motelle x Marmande v	verte", Odisea, Tradiro
(48.1) (G)	05.13. Resistanc	e to Tomato mosaic virus	(ToMV) - Strain 0*	
0	1 - absent	Mo	nalbo, Moneymaker	
•	9 - present	Mo	baci, Mocimor, Momor, Mope	rou
06 . Simila	ar varieties and	differences from these v	varieties	
	te that informatio I period of testing		help to identify comparable v	varieties and can avoid an
06.01. Are	e there any simil	ar varieties known?*		
0	Yes			
0	No			
06.02. Sin	nilar varieties an	d differences from thes	e varieties: *  Describe the expression	Describe the expression
variety(i	nation(s) of les) similar to ndidate variety	which your candidate variety differs from th similar variety(ies)	of the characteristic(s)	of the characteristic(s) for your candidate variety
07.01. In a	addition to the i	-	sections 5 and 6, are there a	ny additional
cnaracte	Yes, specify	y help to distinguish the	e variety: *	
J	. 55, 50 55			
0	No	i		
		_	ng the variety or conducting	the examination? *
07.02.01.	Type of culture *			
_	in the greenhou			
0	in the open field	נ		
07.02.02.	Details of type o	f culture *		
0	staked			
0	semi-staked			



non-staked

07.02.03. Main use *				
		fresh market or garden		
		industrial processing (indicate		
	type	)		
		pot plant		
		rootstock		
07.02.	.03.0	1. Details of fresh market/industry		
	0	single		
	0	truss		
	0	other	Please specify	
07.02.03.02. Details of industry				
	0	peel		
	0	paste		
	0	other	Please specify	
<b>07 02</b>	04 4	re there any special conditions for	growing the variety or conducting the examination? *	
07.02.			sowing the variety of conducting the examination:	
	9	Yes		
	0	No		
	•	No		

#### 07.03. Other information

#### 07.03.01. Resistances to pests and diseases (please specify races/strains if possible) \*

The examination offices test the resistances based on the resistance test protocols listed in the CPVO-TP in force. In case the applicant does assess the resistance based on a different protocol than the one mentioned in the CPVO-TP, please be aware that this could lead to discrepancies between your declaration and the results obtained by the examination office. This may also have important consequences on the conduct of the DUS testing as well as trigger additional tests and fees. In addition, for some resistances an alternative DNA marker test exists. As the phenotype is always leading, the declaration in this Technical Questionnaire should not be based on such DNA marker test only.

(45.3) 07.03.01.01. Resistance to Fusarium oxysporum f. sp. lycopersici (Fol) - Race 2EU/3US\*

O absent



Breeder's ref.	: undefined
0	present
0	not tested
(46) 07.03	3.01.02. Indeterminate types: Resistance to <i>Fusarium oxysporum</i> f. sp. <i>radicis-lycopersici</i> (Forl) *
0	absent
0	present
(46) 07.03 *	3.01.02. Determinate varieties only: Resistance to <i>Fusarium oxysporum</i> f. sp. <i>radicis-lycopersici</i> (For)
0	absent
0	present
0	not tested
(47.1) 07.0	03.01.03. Resistance to <i>Passalora fulva</i> Race 0*
0	absent
0	present
0	not tested
(47.2) 07.0	03.01.04. Determinate types: Resistance to <i>Passolora fulva</i> Group A *
0	absent
O	present
0	not tested
(47.2) 07.0	03.01.04. Indeterminate types: Resistance to <i>Passolora fulva</i> Group A*
( <i>m</i> , on	absent
0	present
	03.01.05. Determinate types: Resistance to <i>Passolora fulva</i> Group B *
0	absent
0	present
0	not tested
(47.3) 07.0	03.01.05. Indeterminate types: Resistance to <i>Passolora fulva</i> Group B *
0	absent
0	present

(47.4) 07.03.01.06. Determinate types: Resistance to Passolora fulva Group C  $^{\star}$ 



Breeder's ref.:	undefined
0	absent
0	present
0	not tested
(47.4) 07.0	3.01.06. Indeterminate types: Resistance to <i>Passolora fulva</i> Group C *
0	absent
0	present
(47.5) 07.0	3.01.07. Determinate types: Resistance to <i>Passolora fulva</i> Group D *
•	absent
•	present
0	not tested
(47.5) 07.0	3.01.07. Indeterminate types: Resistance to <i>Passolora fulva</i> Group D *
0	absent
0	present
(47.6) 07.0	3.01.08. Determinate types: Resistance to <i>Passolora fulva</i> Group E *
0	absent
0	present
0	not tested
(47.6) 07.0	33.01.08. Indeterminate types: Resistance to <i>Passolora fulva</i> Group E*
0	absent
•	present
(48.2) 07.0	3.01.09. Resistance to <i>Tomato mosaic virus</i> (ToMV) strain 1*
0	absent
0	present
0	not tested
(48.3) 07.0	3.01.10. Resistance to <i>Tomato mosaic virus</i> (ToMV) strain 2*
•	absent
0	present



not tested

(49) 07.03	.01.11. Resistance to <i>Phytophtora infestans</i> (Pi)*
0	absent
0	present
0	not tested
(50) 07.03	.01.12. Resistance to <i>Pyrenochaeta lycopersici</i> (PI)*
0	absent
0	present
0	not tested
(51) 07.03	.01.13. Resistance to <i>Stemphylium</i> spp. (Ss)*
0	absent
0	present
O	not tested
(52) 07.03	.01.14. Determinate types: Resistance to <i>Pseudomonas syringae</i> pv. <i>tomato</i> (Pst)*
0	absent
0	present
(52) 07.03	.01.14. Indeterminate types: Resistance to <i>Pseudomonas syringae</i> pv. <i>tomato</i> (Pst) *
0	absent
0	present
0	not tested
(53) 07.03	.01.15. Resistance to <i>Ralstonia salonacearum</i> race 1 (Rs)*
0	absent
0	present
0	not tested
(54) 07.03	.01.16. Resistance to <i>Tomato yellow leaf curl virus</i> (TYLCV)*
0	absent
0	present
0	not tested

(55) (G) 07.03.01.17. Resistance to *Tomato spotted wilt virus* (TSWV) - Strain 0\*



Breeder's ref.	f.: undefined	
0	absent	
•	present	
(56) 07.03	3.01.18. Resistance to <i>Leveillula taurica</i> (L	.t)*
0	absent	
0	present	
0	not tested	
(57) 07.03	3.01.19. Resistance to <i>Oidium neolycoper</i>	sici (On) (ex <i>Oidium lycopersicum</i> (Ol))*
0	absent	
0	present	
0	not tested	
(58) 07.03	3.01.20. Resistance to <i>Tomato torrado vir</i>	us (ToTV)*
0	absent	
0	present	
0	not tested	
07.03.01.2	21. Other resistances	
Ple	ease specify	
07.03.02.	Other information *	
0	Yes, specify	
	N-	
0	No	
07.04. Ph	noto	
It is hi of the exami	ighly recommended to provide pictures ( technical examination will be rendered le ination at the costs of the applicant.	especially fruits at maturity). Otherwise, the organisation ss efficient, with the risk of an additional year of technical
Do	ocuments to be attached	

## 08 . GMO-information

## 08.01. GMO-information required \*

The variety represents a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12/03/2001.



Breeder's ref.:	: undefined	
0	Yes	If yes, please attach in point 08.02 a copy of the written attestation of the responsible authorities stating that a technical examination of the variety under Articles 55 and 56 of the Basic Regulation does not pose risks to the environment according to the norms of the abovementioned Directive.
0	No	
examinat	_	e responsible authorities stating that a technical and 56 of the Basic Regulation does not pose risks to the above-mentioned Directive.
Doc	cuments to be attached	

